

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Check if Relation is a Function (12 pts classwork, version 41)

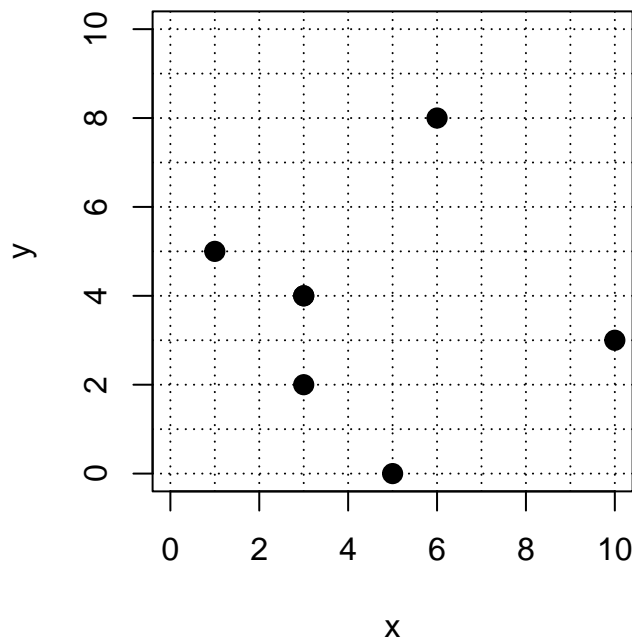
1. A **relation** is expressed as a list of  $(x, y)$  ordered pairs.

$(4, 6)$   $(6, 9)$   $(7, 7)$   $(2, 8)$   $(7, 7)$   $(4, 1)$   $(3, 4)$

- Is  $y$  a function of  $x$ ? Why or why not?
- Is  $x$  a function of  $y$ ? Why or why not?
- One-to-one function? Why or why not?

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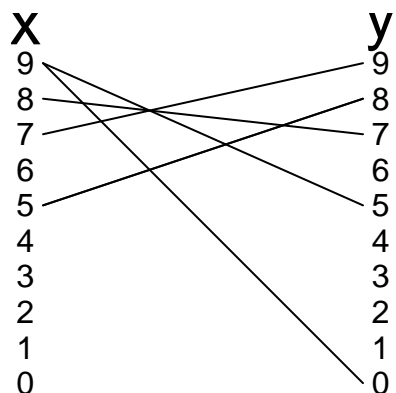
2. A relation is shown as points on a graph.



- Is  $y$  a function of  $x$ ? Why or why not?
- Is  $x$  a function of  $y$ ? Why or why not?
- One-to-one function? Why or why not?

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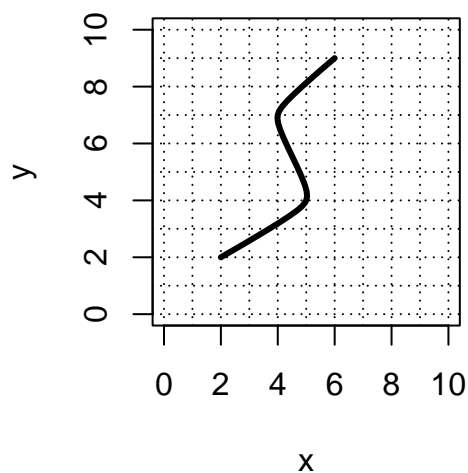
3. A relation is shown with segments connecting elements of two sets.



- Is  $y$  a function of  $x$ ? Why or why not?
- Is  $x$  a function of  $y$ ? Why or why not?
- One-to-one function? Why or why not?

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4. A relation is shown as a curve plotted on an  $x, y$  plane.



- Is  $y$  a function of  $x$ ? Why or why not?
- Is  $x$  a function of  $y$ ? Why or why not?
- One-to-one function? Why or why not?